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Work Order II Tuesday, July 13, 2010	the state of the s						•		Page 1	===
	2-664-101	*	Accept				Setu	ıp Start		
Revision ID: Item Name: Cross	tube Fwd				×.			Stop		
Start Date: 7/13/ Required Date: 7/26/ Reference:	~ ,			Cust Item Customer						
Approvals: Pro	cess Plan:	Date:	Tooling:		Date:		Run	Start Stop		
Sequence ID/ Work Center ID	Operation ! Description		Set Up/ Run Hours	Tool ID	Tool#				Reject Insp. Number Stamp	
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Packaging			٠.	, ,						

CNC Bend 2

BENDING MACHINE - CROSSTUBES

0.00

CNC Alpha 160 Bender

Bend tube as per Dwg D212-664-141 using CNC bender program 212-fw and Folio D212-664-101

Dart Aerospace	Lta	
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W/O:			V	ORK ORDER CH	ANGE	S				* 11
DATE	STEP	PRO	OCEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Page 2

Tuesday, July 13, 2010 11:27:35 AM Item ID: D212-664-101 Accept Setup Start **Revision ID:** Stop Item Name: Crosstube Fwd Start Qty: 1.00 **Start Date:** 7/13/2010 Cust Item ID: Required Date: 7/26/2010 Req'd Qty: 1.00 **Customer:** Reference: Start Run Process Plan: Approvals: Date: Tooling: Date: Stop QC: Date: SPC (Y/N): Date:

Sequence ID/ Work Center ID

130

QC

Quality Control

Operation Description

Crosstubes

QC15- Crosstube Dimensional Check

Memo

Run Hours 0.00

0.00

0.00

Set Up/

0 10/03/26

Tool ID

Tool # Plan Code

Accept Qty

Reject **Qty**

Reject

Insp. Number | Stamp

140

Crosstubes

Crosstubes

Memo

1-Drill pilot holes in tube as per Dwg D212-664-141 using drill Jig DT8548 & DT8549, using drill table DT8577, set-up towers in hole #7 as per OSI 10

2-Ream hole to finish size in tube as per Dwg D212-664-141using drill Jig DT8548 & DT8549. Check dimensions between holes, both sides on both cuffs, to ensure alignment with saddle holes.

3-Scribe part # and batch # using vibrating stylus as per Dwg D212-664-141

4-Deburr & Inspect for surface damage. Repair damage within limits as per Dwg D212-664-141

-Aum 10-07-28

W/O:										
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Work Order ID 60521



Page 3

Insp.

Stamp

Tuesday, July 13, 2010 11:27:35 AM Item ID: D212-664-101 Accept Setup Start **Revision ID:** Stop **Item Name:** Crosstube Fwd **Start Date:** 7/13/2010 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/26/2010 Req'd Qty: 1.00 Customer: Reference: Start Run Process Plan: Approvals: Date: Tooling: Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Work Center ID Description Qty **Run Hours** Code Qty Number 150 Crosstubes Chemical Conversion 0.00 HandFXtube 0.00 Memo Hand Finishing Crosstubes Chemical Conversion Coat within 24 hours of bending and drilling 160 QC5- Inspect part completeness to step on W/O QC Memo Quality Control

170

Outsource2

Outsource process - NDT

Outsource process - NDT per QSI038 4.1

0.00

0.00

Memo

Liquid Penetrant Inspection as per QSI 038

LPI as per ASTM 1417 Level 2

Attach copy of NDT results to work order

Pd 10-7-30

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Work Order ID 60521

Tuesday, July 13, 2010 11:27:35 AM



Page 4

Item ID:

D212-664-101

Accept

Setup Start

Stop



Revision ID:

Item Name: Crosstube Fwd

Start Date:

7/13/2010

Start Qty: 1.00

Required Date: 7/26/2010 Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

QC:

Process Plan:

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Start Run

Stop

Sequence ID/

Work Center ID

180

Packaging Packaging

Operation Description

Receive & Inspect for Damage & Mat'l Certs

Packaging

Memo

0.00

0.00

Set Up/

Run Hours

Ensure copy of NDT results attached to work order.

Date:

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject Oty

Insp. Number Stamp

190

QC

Quality Control

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Inspect for damage & ensure results are as per Dwg D212-664-141

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Work Order ID 60521

210

QC

Quality Control

Tuesday, July 13, 2010 11:27:35 AM

QC14- Inspect Spray Paint

Memo

Then, Wrap in plastic bag to protect from scratches



Page 5

ET (0-08-06

Item ID: D212-664-101 Accept Setup Start **Revision ID:** Stop Crosstube Fwd Item Name: Start Date: 7/13/2010 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/26/2010 Req'd Qty: 1.00 **Customer:** Reference: Start Run Process Plan: ____ Tooling: Approvals: Date: Date: Stop Date: QC: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Reject Accept Reject Insp. Work Center ID Description Qty **Run Hours** Code Qty Number Stamp 200 Spray Painting per QSI005 4.2 0.00 SprayPaint 08.03 SprayPaint 0.00 Memo Spray Painting 1-Prime inside and outside crosstube as per QSI 005 4.2 2-Paint outside crosstube with White Imron as per QSI 005 4.2 PRIME: Start Time: 9:00 Fininsh Time: 10.00 PAINT: Start Time: 130 Finish Time: 3500

0.00

0.00

W/O:		WORK ORDER CHANGES								
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0.00

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240

Packaging

Packaging

Pick Kit

Memo

W/O:			V	ORK ORDER CHANG	ES					*******************
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Work Order ID 60521

Tuesday, July 13, 2010 11:27:35 AM



Page 7

Item ID:

D212-664-101

Accept

Setup Start



Revision ID:

Item Name:

Crosstube Fwd

Start Date:

7/13/2010

Start Qty: 1.00

Required Date: 7/26/2010 Req'd Qty: 1.00

Cust Item ID:

Customer:

Tool ID

Reference:

Approvals:

Process Plan:

Date:____ **Tooling:**

Date:

Identify and pack for shipping as per PPP D212-664-101

SPC (Y/N):

Set Up/

Run Hours

Date: Date:

Start

Stop

Stop

Sequence ID/

Work Center ID

250

QC

Quality Control

Operation Description

QC: ____

QC4- 100% Inspect kits for completeness

0.00

0.00

Didwood

Tool # Plan

Accept Code Qty

Reject Qty

Run

Reject Number

Insp. Stamp

260

Packaging Packaging

Packaging

Memo

Memo

0.00

270

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

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W/O:			WC	ORK ORDER CHANG	ES				
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Parent Item: D2	12-664-101						ı						,
Parent Item Name:	Crosstube Fwd		(122)						tart Date: 7/13 Start Qty: 1.00		-	l Date: 7/2 d Qty: 1.0	
Comments:	IPP Rev:E□04.02.10 IPP Rev:F 06-03-2 IPP Rev:G 07-04-	29 Remove Con	nents o	on Pick List 3	ILM ILM								
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D212-664-101TRN	1 188 188 188 188 188 188 188 188 188 1	Manufactured	No			110	Each	2.0000		1 UB 1	0-0	2-22	
				Location LG	59977 59978	<u>Loc (</u>	2 1 1	Loc Code		(X)			
D3595-063-450		Manufactured	No			230	Each	50.7590	4 	4.210526			
RUBBER CUSHION				<u>Location</u> LG	1	<u>Loc (</u> 50.75897		Loc Code	_		m	10.	08-04

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Picklist Print Page 2 Tuesday, July 13, 2010 11:27:39 AM Work Order ID: 60521 Parent Item: D212-664-101 Parent Item Name: Crosstube Fwd Start Date: 7/13/2010 **Required Date:** 7/26/2010 Start Qty: 1.00 Required Oty: 1.00 MS21920-25 Purchased No 220 Each 106.0000 Clamp(per MIL-DTL-8783C) Location Loc Oty Loc Code LG 63 113281 0 114759 38 114901 25 ST451 43 113281 5 113282 18 113744 114141 19 D2893-1 Manufactured 220 No Each 30.0000 2 2.75 Support Location Loc Qty Loc Code LG 30 53340 2 <u>537</u>74 56354 20 -D3428-1 Manufactured No 240 Each 8.0000 Placard Location Loc Qty Loc Code ST056 60133 8 AN6-35A Purchased No 240 Each 0.0000 M115204

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Picklist Print Page 3 Tuesday, July 13, 2010 11:27:39 AM Work Order ID: 60521 Parent Item: D212-664-101 Parent Item Name: Crosstube Fwd **Start Date: 7/13/2010 Required Date: 7/26/2010** Start Qty: 1.00 Required Qty: 1.00 AN6-36A Purchased No 240 Each 80.0000 Location Loc Qty Loc Code ST343 80 114330 30 115016 50 MS21042L6 Purchased No 240 Each 204.0000 Nut Location Loc Qty Loc Code ST300

111578

114495

Washer

NAS1149D0663J Purchased

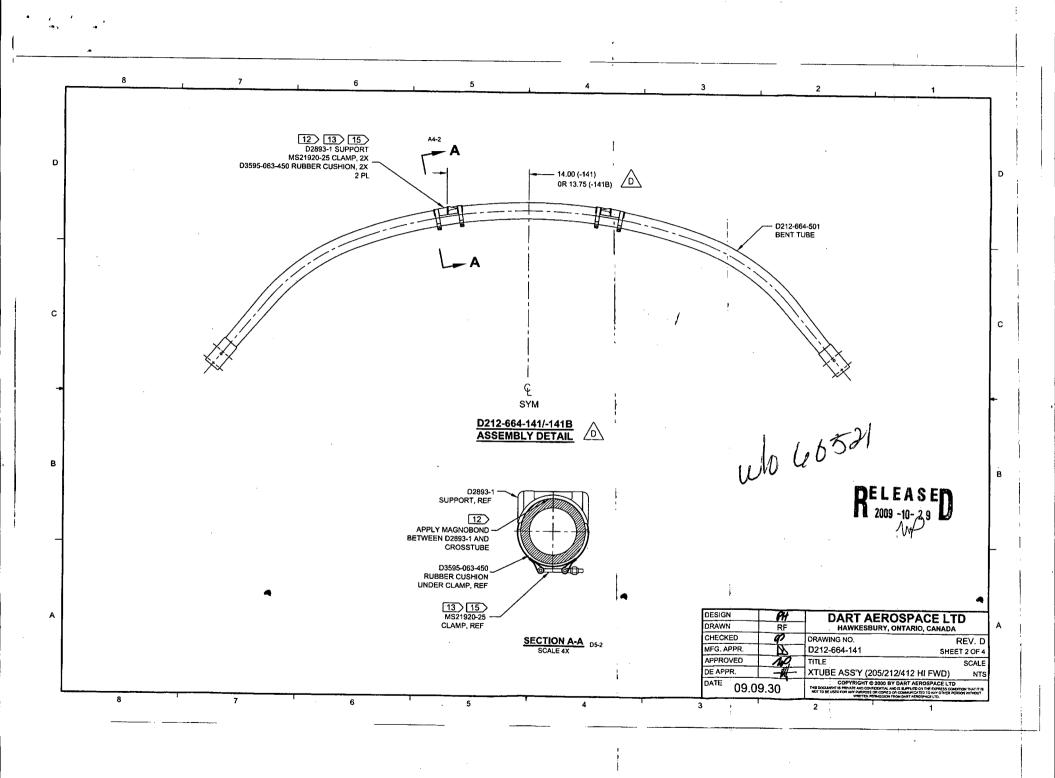
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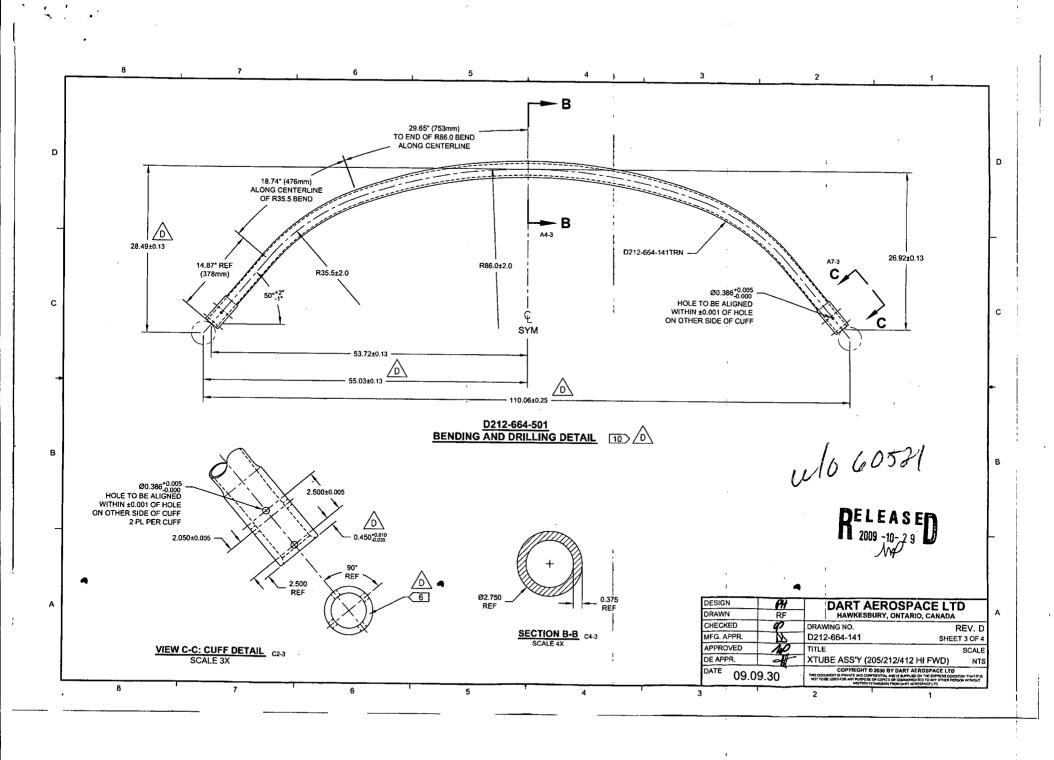
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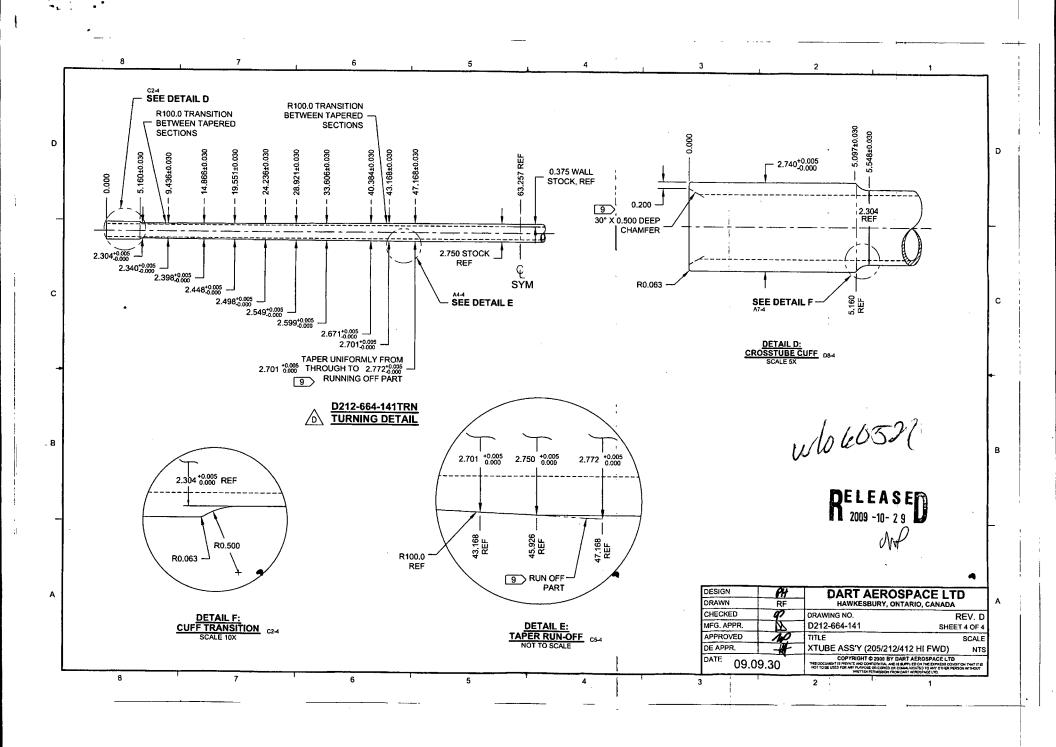


									
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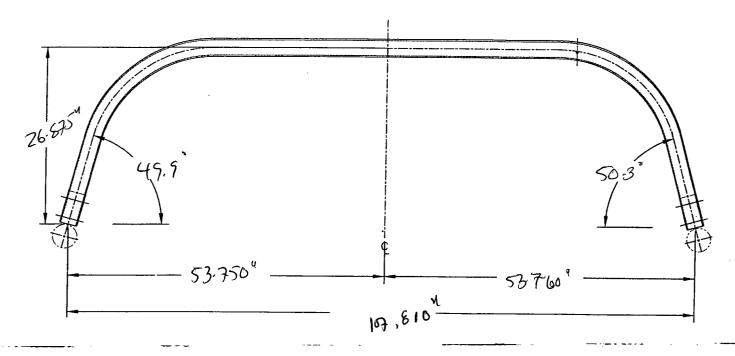
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DART AEROSPACE LTD	Work Order:	60521
Description: Crosstube High Fwd (205/212/412)	Part Number:	D212-664-101
Inspection Dwg: D212-664-141 Rev: D		Page 1 of 1

Required Dimension	Min	Max
Height	26.79	27.05
1/2 Span	53.59	53.85
Angle	49	52
Total Span	107.18	107.7



	Comments	
		· · · · · · · · · · · · · · · · · · ·
QC15 Inspection	7	
Date	10/05/26	

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM	
В	07.05.31	Dimensions updated per Dwg Rev C	KJ/JM	
С	10.04.01	Dwg Rev updated	KJ	

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LIQUID PENETRANT TEST REPORT

P- 15185

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CUENT	ART AEROSPACE	DATE July	30-2010 TIME AM & PM 0
	LINDA /CHANTEL		188-10-0814
ATTENTION	TO ABBIDEEN STREET.	PO/WO No. 17233	77 —
ADDRESS	GER OUL CI		KES BURY PLANT.
190	SKES DULY ON.		74 1417 REV./DATE 2007
	RGH IKT	Eoss FuBES	
PROJECT	FRIT, ON C	<u> 2013 (U.M.)</u>	
ITEM(S) EXAMINED	7 / 63		
JOB DESCRIPTION	PROCEDURE NO. LT-COO_1 REV./DATE	TECHNIQUE	NO. LT-GH. 2. REV./DATE
			-UM(NUM THICKNESS
PART NO.	FLOURES CENT L	_	TRANT
SCOPE WET	ENSPECTION CALLIE		% EXTENAL
T-0- D5-440	- N 3) JUNE CALLIE		
TEST DETAILS METHOD	☐ FLUORESCENT ☐ VISIBLE	☑ WATER WASH	☐ SOLVENT REMOVABLE ☐ POST EMULSIFIED
	NAFLUX	BLACK LIGHT S/N /6459	\square OUTPUT > 1000 μ W/cm ² \square AMBIENT < 2 fc
PENETRANT 2L	67 MINIMUM DWELL TIME 450 MIN	LIGHTING EQUIP. TELASHLIG	HT ☐ TROUBLELIGHT ☐ OUTPUT>100 fc@ SURFACE
PENETRANT REMOVER	14.20 MINIMUM DRY TIME >10 MIN		8866 CAL DUE DATE 0-7-19
DEVELOPER TYPE	MINIMUM DWELL TIME 10 MIN NON AQUEOUS AQUEOUS DRY	LIGHT METER S/N 109	2010
TEST SURFACE	I NON AQUEOUS LI AQUEOUS LI SKI		/
	As Ground		BLASTED Z CLEAN BARE METAL
SURFACE TEMPERATURE (D°F ₫ 10°C/	50°F ⊤0 52°C/125°F □ > 52°C/125°F
RESULTS-	□ METRIC □ IMPERIAL)		
1 Clossi	1.BE, W.O. 60526 / 1.BE, W.O. 60525 / 1.BE, W.O. 60522 /		
		1000	> 03
that all descriptions, comments and c representations or warranties. Acure data or other information provided b	xpressions of opinion reflect the opinions or observations of Actuen Group in a Group Inc. is not assuming any responsibilities of the owner/operator and a Acturen Group Inc. In no event shall Acturen Group Inc.'s liability in respect Acturen Group Inc. uses the degree, care and skill ordinarily exercised under	ic: basea on information and assumptions sup- the owner/operator retains complete responsible of the services referred to herein exceed the ar	
SIGNATURES			
CLIENT REPRESENTATIV	= / jud louelle	1 2 Ja	DTR# 563374.
	PRINT	SIGNATURE	REPORT
NAME (PRINT):	Mike Attustow		REVIEWED BY: NAME INITIALS
,	1 ST TECHNICIAN CGSB LEVEL SNT LEVEL CGSB	2 ^{rei} Technician Level SNT Level	
	CGSB REG. NO black CGSB	Reg. No	

REFERENCE ONLY

DART AEROSPACE LTD.



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5.0 PARTS LIST

5.1 HIGH GEAR CROSSTUBES

ltem	-101	-201	-203	Part Number	Description
	n oz X			D212-664-101	CROSSTUBE INSTALLATION, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH FWD
	ē.	х		D212-664-201	CROSSTUBE INSTALLATION, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
			х	D412-664-203	CROSSTUBE INSTALLATION, 412 HIGH AFT
					ODOGOTUDE AGGENTLY
1	1			D212-664-141	CROSSTUBE ASSEMBLY, 204/205/210/212/214/412, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K, HIGH FWD
2		1		D212-664-241	CROSSTUBE ASSEMBLY, 204/205/210/212/214, UH-1H, UH-1A/B/E/F/L/P, TH-1F/L, HH-1K HIGH AFT
3			1	D412-664-243	CROSSTUBE ASSEMBLY, 412 HIGH AFT
40				# D0000 4	CURRORT
10 11	2			* D2893-1	SUPPORT
12	4			* D3595-063-450 * MS21920-25	RUBBER CUSHION
13	- 4			AN6-35A -	CLAMP (OR MS21042-26) BOLT
14	4	<u> </u>		AN6-36A /	BOLT
15	6			MS21042L6	NUT (OR MS21042-6)
16	18			AN960JD616	WASHER
20		2	ļ	* D2940-1	SUPPORT
21		4		* D3595-063-530	RUBBER CUSHION
22		4		* MS21920-28	CLAMP (OR MS21042-30)
_ 23		4		AN6-40A	BOLT
24		2		AN6-41A	BOLT
25		6	***	MS21042L6	NUT (OR MS21042-6)
26		18		AN960JD616	WASHER
20				* D2000 4	CURRORT
30 31			2	* D2896-1 * D2856-600-1009	SUPPORT ABRASION STRIP
32			2	* D3595-063-570	RUBBER CUSHION
33			4	* MS21920-28	CLAMP
34			2	* MS21920-30	CLAMP (OR MS21042-32)
35			4	AN6-40A	BOLT
36	 -		2	AN6-41A	BOLT
37			6	MS21042L6	NUT (OR MS21042-6)
38			18	AN960JD616	WASHER
39			2	* D3189-1	CHAFING SHIELD
	<u> </u>				
50	1	1		D3428-1	PLACARD

^{*}REFERENCE ONLY. PARTS ARE INCLUDED IN D212-664-141/-241 OR D412-664-243 ASSEMBLIES ABOVE NOTE: KITS INCLUDE EXTRA HARDWARE FOR COMPATIBILITY WITH BOTH DART AND BELL/AA SKIDTUBES.

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